

FUEL BATTERY

ABSTRACT OF THE DISCLOSURE

A fuel battery having a high oxygen partial pressure at the fuel electrode side, maintaining conductivity even under conditions where a metal electrode would be oxidized, and maintaining a fuel electrode function, having a cell comprised of an oxygen ion conducting solid electrolyte layer on one surface of which a cathode layer is formed and on the other surface of which an anode layer is formed, supplied with methane or another fuel gas and oxygen or an oxygen-containing gas, and undergoing an oxidation reduction reaction between the gases through the cell whereby an electromotive force is generated, wherein the anode layer is comprised of a fired body having NiO containing Li in solid solution as a main ingredient.